

1 BILL NO. S-85-06-43

2 SPECIAL ORDINANCE NO. S-

132-85

3 AN ORDINANCE approving City Utilities
4 Purchase Order #A-44712 by the City
5 of Fort Wayne, Indiana, by and through
6 its Department of Purchasing and En-
7 gineered Fiberglass Products for the
8 Street Light Engineering Department.

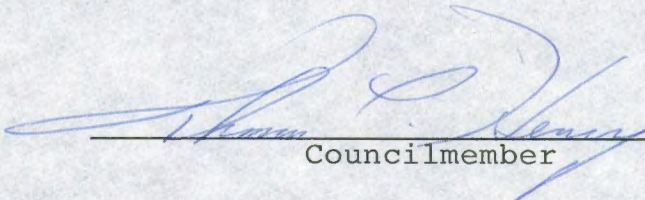
9 NOW, THEREFORE, BE IT ORDAINED BY THE COMMON COUNCIL
10 OF THE CITY OF FORT WAYNE, INDIANA:

11 SECTION 1. That City Utilities Purchase Order #A-44712
12 between the City of Fort Wayne, by and through its City Utilities,
13 and the Department of Purchasing and Engineered Fiberglass Products,
14 for the Street Light Engineering Department, respectfully for:

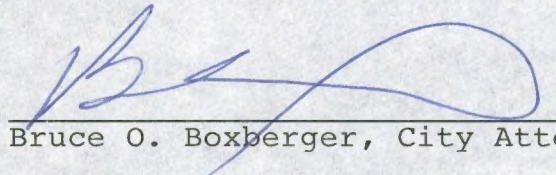
15 the awarding of a bid with respect to
16 the purchase of fiberglass light poles
17 for the Street Light Engineering De-
18 partment;

19 involving a total cost of Eleven Thousand Five Hundred Sixty-Seven
20 and 50/100 Dollars (\$11,567.50), all as more particularly set
21 forth in said Purchase Order, which is on file in the Office of
22 the Department of Purchasing, and is by reference incorporated
23 herein, made a part hereof, and is hereby in all things ratified,
24 confirmed and approved.

25 SECTION 2. That this Ordinance shall be in full force
26 and effect from and after its passage, and any and all necessary
27 approval by the Mayor.

28 
Councilmember

29 APPROVED AS TO FORM
30 AND LEGALITY

31 
32 Bruce O. Boxberger, City Attorney

Read the first time in full and on motion by Henry, seconded by Gastner, and duly adopted, read the second time by title and referred to the Committee City of Fort Wayne (and the City Plan Commission for recommendation) and Public Hearing to be held after due legal notice, at the Council Chambers, City-County Building, Fort Wayne Indiana, on _____, the _____ day of _____, 19____, at _____ o'clock _____ M., E.S.

DATE: 6-25-85 Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Read the third time in full and on motion by Henry, seconded by Stier, and duly adopted, placed on its passage. PASSED (~~LOST~~) by the following vote:

	<u>AYES</u>	<u>NAYS</u>	<u>ABSTAINED</u>	<u>ABSENT</u>	<u>TO-WIT:</u>
<u>TOTAL VOTES</u>	<u>8</u>	<u> </u>	<u> </u>	<u>1</u>	<u> </u>
<u>BRADBURY</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>BURNS</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>EISBART</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>GiaQUINTA</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>HENRY</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>REDD</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>SCHMIDT</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>STIER</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>TALARICO</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

DATE: 7-9-85 Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Passed and adopted by the Common Council of the City of Fort Wayne, Indiana, as (~~ANNEXATION~~) (~~APPROPRIATION~~) (~~GENERAL~~) (~~SPECIAL~~) (~~ZONING MAP~~) ORDINANCE (~~RESOLUTION~~) NO. 13285 on the 9th day of July, 1985,

ATTEST: (SEAL) Mark E. GiaQuinta
Sandra E. Kennedy PRESIDING OFFICER
SANDRA E. KENNEDY, CITY CLERK

Presented by me to the Mayor of the City of Fort Wayne, Indiana, on the 10th day of July, 1985, at the hour of 11:30 o'clock PM M., E.S.T.
Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Approved and signed by me this 11th day of July, 1985, at the hour of 9 o'clock A M., E.S.T.
Wm. Moses, Jr.
WM. MOSES, JR., MAYOR

City of Fort Wayne
DEPARTMENT OF PURCHASES
NUMBER ONE EAST MAIN STREET, ROOM 940
FORT WAYNE, IN 46802

STREET LIGHTING WAREHOUSE 100
1703 S. LAFAYETTE STREET
FORT WAYNE IN 46803

ENGINEERED FIBERGLASS PRODUCTS 2295-01
P. O. BOX 815
ESTILL SC 29918

STREET LIGHTING WAREHOUSE
1703 S. LAFAYETTE STREET
FORT WAYNE IN 46803

A- 44712

REQ. NO. 00053

THE ABOVE INFORMATION MUST APPEAR ON ALL INVOICES,
BILLS OF LADING, DELIVERY TICKETS, PACKAGES AND
CORRESPONDENCE.

INVOICE IN DUPLICATE

CIVIL CITY

XX CITY UTILITIES

APPROPRIATION AND FUND NUMBER 5-12-503-E15-44-299

N/A

CASH DISCOUNT TERMS	% IF PAID WITHIN	DAYS FROM DELIVERY AND ACCEPTANCE OF GOODS OR PERFORMANCE OF SERVICES. (DEDUCTION FOR DISCOUNT SHOWN BELOW)
2/10	2	10
1/15	1	15
1/30	1	30
1/60	1	60
1/90	1	90
1/120	1	120
1/180	1	180
1/270	1	270
1/360	1	360
1/450	1	450
1/540	1	540
1/630	1	630
1/720	1	720
1/810	1	810
1/900	1	900
1/990	1	990
1/1080	1	1080
1/1170	1	1170
1/1260	1	1260
1/1350	1	1350
1/1440	1	1440
1/1530	1	1530
1/1620	1	1620
1/1710	1	1710
1/1800	1	1800
1/1890	1	1890
1/1980	1	1980
1/2070	1	2070
1/2160	1	2160
1/2250	1	2250
1/2340	1	2340
1/2430	1	2430
1/2520	1	2520
1/2610	1	2610
1/2700	1	2700
1/2790	1	2790
1/2880	1	2880
1/2970	1	2970
1/3060	1	3060
1/3150	1	3150
1/3240	1	3240
1/3330	1	3330
1/3420	1	3420
1/3510	1	3510
1/3600	1	3600
1/3690	1	3690
1/3780	1	3780
1/3870	1	3870
1/3960	1	3960
1/4050	1	4050
1/4140	1	4140
1/4230	1	4230
1/4320	1	4320
1/4410	1	4410
1/4500	1	4500
1/4590	1	4590
1/4680	1	4680
1/4770	1	4770
1/4860	1	4860
1/4950	1	4950
1/5040	1	5040
1/5130	1	5130
1/5220	1	5220
1/5310	1	5310
1/5400	1	5400
1/5490	1	5490
1/5580	1	5580
1/5670	1	5670
1/5760	1	5760
1/5850	1	5850
1/5940	1	5940
1/6030	1	6030
1/6120	1	6120
1/6210	1	6210
1/6300	1	6300
1/6390	1	6390
1/6480	1	6480
1/6570	1	6570
1/6660	1	6660
1/6750	1	6750
1/6840	1	6840
1/6930	1	6930
1/7020	1	7020
1/7110	1	7110
1/7200	1	7200
1/7290	1	7290
1/7380	1	7380
1/7470	1	7470
1/7560	1	7560
1/7650	1	7650
1/7740	1	7740
1/7830	1	7830
1/7920	1	7920
1/8010	1	8010
1/8100	1	8100
1/8190	1	8190
1/8280	1	8280
1/8370	1	8370
1/8460	1	8460
1/8550	1	8550
1/8640	1	8640
1/8730	1	8730
1/8820	1	8820
1/8910	1	8910
1/9000	1	9000
1/9090	1	9090
1/9180	1	9180
1/9270	1	9270
1/9360	1	9360
1/9450	1	9450
1/9540	1	9540
1/9630	1	9630
1/9720	1	9720

FOR INFORMATION:	PURCHASING	219-427-1101	TOTAL	11567.50
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UNLESS OTHERWISE INDICATED THE PRICES SHOWN INCLUDE ALL CHARGES FOR DELIVERY, PACKING, ETC., NECESSARY TO COMPLETE DELIVERY TO DESTINATION SPECIFIED.

READ
INSTRUCTIONS ON
THE BACK OF THIS
ORDER

UNLESS OTHERWISE INDICATED,
THE PRICES SHOWN DO NOT IN-
CLUDE TAXES OF ANY KIND.

INDIANA SALES TAX EXEMPTION
CERTIFICATE NUMBER
034508-03

IF THIS ORDER DOES NOT
AGREE WITH YOUR QUOTATION
KINDLY RETURN
IT WITH AN EXPLANATION

I HEREBY CERTIFY THAT THE COST OF THE ABOVE PURCHASE IS FULLY COVERED BY UNENCUMBERED BALANCES IN THE ABOVE FUNDS AND THAT THE EXPENDITURE THEREFORE HAS BEEN DULY AUTHORIZED AND APPROPRIATED.

I HEREBY CERTIFY UPON MY OWN PERSONAL KNOWLEDGE THAT THIS ORDER IS AUTHORIZED BY A PROPERLY EXECUTED AND APPROVED REQUISITION ON FILE IN THIS OFFICE.

DIRECTOR OF PURCHASES

BID REFERENCE #750
FIBERGLASS POLES
STREET LIGHTING
TABULATION

	<u>PRICE PER EACH</u>	<u>TOTAL</u>	<u>DELIVERY TIME</u>
SHAKESPEARE (Electronics & Fiberglass Div.):	\$327.42	\$16,371.00	8 Weeks
ENGINEERED FIBERGLASS PRODUCTS, INC.:	\$217.37	\$10,868.50	6-8 Weeks
ENGINEERED FIBERGLASS PRODUCTS (Alternate):	\$231.35	\$11,567.50	6-8 Weeks

CITY OF FORT WAYNE

DEPARTMENT OF PURCHASES

FT. WAYNE, IND.

INVITATION

Page 1 of 19Ref. No. 750Date May 15, 1985

Date wanted _____

Fund
Appropriation No. _____

Quotations, subject to the conditions on the reverse hereof, are requested on the following list of materials, supplies, equipment or services, for the department as mentioned, with delivery to destination as shown below. Quotations shall include all charges for delivery, packing, etc. Address your reply as indicated below.

*Mail all replies and correspondence, etc. to Attn. of Carol Offerle

DEPARTMENT OF PURCHASES

Address ROOM 940, ONE MAIN STREET, FORT WAYNE, IN 46802 (219)427-1101**REQUIRED FOR DELIVERY TO:**

Department or Division STREET LIGHTING WAREHOUSE
1701 SOUTH LAFAYETTE ST.
FORT WAYNE, IN 46803

RETURN ORIGINAL TO THE CITY — RETAIN DUPLICATE COPY FOR YOUR FILEClosing Time of Bids JUNE 4, 1985 at 10:00 a.m.

TAXES: THE CITY IS EXEMPT FROM FEDERAL EXCISE AND INDIANA STATE SALES TAX. THE CITY'S INDIANA SALES TAX EXEMPTION CERTIFICATE NUMBER IS NO. 84508. PRICES SHOULD NOT INCLUDE THESE TAXES. See "Instructions to Bidders" No. 10 on reverse hereof for details.

TAX EXEMPT (Unless otherwise indicated)

Quantity	Unit	Materials, Supplies, Equipment or Services	Unit Price	Total Amount
50	EA.	28 Ft. (+/-) overall length fiberglass light poles for 25 Ft. + mounting height per the attached specifications (see pages 11-12 of 19). SHAKESPEARE CNT. # BH28-99S6BG 21	327.42	16,371.00
<p>PRICING</p> <p>PRICE PER EACH: \$ <u>327.42</u> (including freight)</p> <p>TOTAL: \$ <u>16,371.00</u> (including freight)</p> <p>DELIVERY TIME: <u>8 wks. ARO</u></p> <p>AFFIRMATIVE ACTION: On File <input checked="" type="checkbox"/> Attached <input type="checkbox"/></p>				

327.42
FREIGHT ALLOWED

Bid Bond required ☐ YES 5% Performance Bond ☒ YES NO

See instruction item No. 16 on reverse side hereof.

Terms % cash discount if paid within days from delivery and acceptance of goods or completion of service

PROPOSAL OR BID

In compliance with the above invitation for bids and subject to all conditions thereof, the undersigned offers and agrees, if this bid be accepted within a reasonable time from date of closing, to furnish any or all of the items or render such services upon which prices are quoted, in accordance with the specifications applying and at the prices set opposite each item.

Delivery of any or all of the items or completion of services indicated shall be made within 60 days from receipt of order.

IMPORTANT

As delivery may be a deciding factor in the award of an order, it is important that bidders furnish the information requested above.

Sign Here:

SHAKESPEARE - ELECTRONICS & FIBERGLASS
 Name of Company
 By RON CROMER Title SALES ADMINIS
 Address P.O. Box 733
NEWBERRY, S.C. 29108 Date 5-30-

PROPOSAL AND BID SURETY FORM

PROPOSAL:

In compliance with the foregoing invitation to bid and subject to all of the conditions thereof the undersigned offers and agrees, if this bid is accepted within a reasonable time from date of opening of bids, to enter into a contract in accordance with the prices stated herein.

The Legal Advertisement, General Conditions, Instructions to Bidders, Information for Bidders, Special Conditions, Specifications, and Plans applying form a part of this proposal.

This proposal is supported by the following bid surety as required by law and signatures affixed thereto constitute both a proposal and bid surety executed by the bidder.

BID SURETY (REQUIRED BY LAW):

BOND FORM: (USE THIS BOND FORM—NO ALTERNATE FORM OF BOND WILL BE CONSIDERED).

KNOW ALL MEN BY THESE PRESENTS, THAT we, the undersigned, are held and firmly bound unto the City of Fort Wayne, State of Indiana, in the sum of \$818.55

to be paid on demand to said City of Fort Wayne, its successors and assigns for which payment well and truly to be made, we hereby bind ourselves, our heirs, successors, executors, and administrators, jointly and severally firmly by these presents.

The condition of this obligation is such that if the bid or proposal attached hereto and made a part hereof and submitted to the within named division of the City of Fort Wayne or its duly constituted agent, is accepted and a contract awarded to the undersigned bidder and the said bidder shall within ten (10) days after notice of said award enter into a contract with the said City of Fort Wayne, State of Indiana, and shall secure the performance of the same by bond or otherwise as may be required to the satisfaction of the City of Fort Wayne, Indiana then this obligation shall be null and void; otherwise to be in full force and effect.

BID CHECK (ALTERNATE FORM OF SURETY):

Certified ☐

Cashiers ☐ Check No. 68786 in the sum of _____

If a corporate surety is furnished, it is necessary that a certificate authorizing the "attorney-in-fact" to sign the bond accompanying the same.

on SOUTH CAROLINA NATIONAL BANK 818.55 Dollars
of NEWBERRY, S.C. Bank

is herewith submitted and deposited in lieu of bond under the same terms and conditions as set forth in the above bond.
Note: If Check is used as Bid Surety—Attach here.

SIGNATURES (BID SURETY AND PROPOSAL):

Witnessed by:

Dana Nell Jones

OTHER PARTIES INTERESTED IN THIS PROPOSAL

(See 14—Signatures under General Conditions, etc.)

List all Parties if Partnership

BIDDER
AND
PRINCIPAL

SHAKESPEARE
Name of Bidder—Print or Type

By Ronald W. Cropper
Signature of Person Authorized to Sign

Title SALES Administrator

P.O. Box 733

Hwy 76
Street Name and Number

NEWBERRY S.C. 29108
City, State and Zip Code

Date MAY 31, 1985

SEE COVER LETTER

Witnessed by:

SURETY

Name of Company — Print or Type

Incorporated
In the State of: _____

Address _____

By _____

Sign on this line

NON-COLLUSION AFFIDAVIT

STATE OF INDIANA, }
 ----- COUNTY } SS:

The undersigned bidder or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be bid by anyone at such letting, nor to prevent any person from bidding nor to induce anyone to refrain from bidding, and that this bid is made without reference to any other bid and without any agreement, understanding or combination with any other person in reference to such bidding.

He further says that no person or persons, firms, or corporation has, have or will receive directly or indirectly, any rebate, fee, gift, commission or thing of value on account of such sale or contract.

Ronald W. Cromer

Sales Administrator

 Bidder or Agent

For SHAKESPEARE

 Firm or Corporation

Subscribed and sworn to before me this 31 day of May, 1985

My Commission Expires

Dana Nell F. Jones

MBE/WBE STATEMENT

FOR
CITY OF FORT WAYNE, INDIANA

BID NO. 750
BID DATE: 6-4-85

The City is committed to minority/women's business participation, and the Citizens' Advisory Committee is presently preparing an ordinance concerning minority and women's business participation for City contracts. This project is also governed by various affirmative action requirements including Presidential Executive Order Number 11246. To assist the City in meeting its stated goals and to further meet affirmative action requirements, the undersigned commits N/A percent (%), as a goal, of the undersigned's total bid to minority/women's business participation. In that regard, the following MBE and/or WBE firms have been contacted to work as subcontractors:

<u>Name of Firm</u>	<u>Type of Work</u>
1. <u>NONE</u>	
2.	
3.	
4.	

Submitted on: MAY 30, 1985, 1984

By SHAKESPEARE
(Company Name)

Rodney Fepting **MANAGER**
(Name & Title of Person Authorized to sign)

Business Address: SHAKESPEARE
RFD #3 Hwy 76
NEWBERRY, S.C. 29108

Phone Number: 803-276-5504

CITY OF FORT WAYNE**DEPARTMENT OF PURCHASES**

FT. WAYNE, IND.

INVITATION

Quotations, subject to the conditions on the reverse hereof, are requested on the following list of materials, supplies, equipment or services, for the department as mentioned, with delivery to destination as shown below. Quotations shall include all charges for delivery, packing, etc. Address your reply as indicated below.

*Mail all replies and correspondence, etc. to Attn. of Carol Offerle

DEPARTMENT OF PURCHASES

Address ROOM 940, ONE MAIN STREET, FORT WAYNE, IN 46802 (219)427-1101

REQUIRED FOR DELIVERY TO:

Department or Division STREET LIGHTING WAREHOUSE
1701 SOUTH LAFAYETTE ST.

Address FORT WAYNE, IN 46803

RETURN ORIGINAL TO THE CITY — RETAIN DUPLICATE COPY FOR YOUR FILE

Closing Time of Bids JUNE 4, 1985 at 10:00 a.m.

TAXES: THE CITY IS EXEMPT FROM FEDERAL EXCISE AND INDIANA STATE SALES TAX. THE CITY'S INDIANA SALES TAX EXEMPTION CERTIFICATE NUMBER IS NO. 84508. PRICES SHOULD NOT INCLUDE THESE TAXES. See "Instructions to Bidders" No. 10 on reverse hereof for details.

TAX EXEMPT (Unless otherwise indicated)

Quantity	Unit	Materials, Supplies, Equipment or Services	Unit Price	Total Amount
50	EA.	<p>28 Ft. (+/-) overall length fiberglass light poles for 25 Ft. + mounting height per the attached specifications (see pages 11-12 of 19).</p> <p>Engineered Fibreglass Catalog #MD112-85-1-HS-PC-AR-BP</p> <p>PRICING (See attached quotation for alternate bid)</p> <p>PRICE PER EACH: \$ <u>217.37</u> (including freight)</p> <p>TOTAL: \$ <u>10,868.50</u> (including freight)</p> <p>DELIVERY TIME: <u>6-8 weeks ARO</u></p> <p>AFFIRMATIVE ACTION: On File <u>XXXXX</u></p>		

Bid Bond required ☐ NO ☒ YES 5% Performance Bond ☒ NO ☐ YES NO

See instruction item No. 16 on reverse side hereof.

Terms 0 % cash discount if paid within 30 days from delivery and acceptance of goods or completion of services

PROPOSAL OR BID

In compliance with the above invitation for bids and subject to all conditions thereof, the undersigned offers and agrees, if this bid be accepted within a reasonable time from date of closing, to furnish any or all of the items or render such services upon which prices are quoted, in accordance with the specifications applying and at the price set opposite each item.

Delivery of any or all of the items or completion of services indicated shall be made within 60 days from receipt of order.

IMPORTANT

As delivery may be a deciding factor in the award of an order, it is important that bidders furnish the information requested above.

Sign Here:

Engineered Fibreglass Products, Inc.

Per Jim Myers Name of Company Sales Mgr.

Address P.O. Box 815

Estill, SC. 29918

6-5-85

Page 1 of 1Ref. No. 750Date May 15, 1985

Date wanted _____

Fund _____
 Appropriation No. _____

ENGINEERED FIBREGLASS PRODUCTS, INC.

AFFILIATE OF G. A. PFLEIDERER, GMBH
MANUFACTURERS - ENGINEERS

ESTILL, SOUTH CAROLINA 29918

MAIL: POST OFFICE BOX 815 - FACTORY: 25 WOOD STREET - PHONE: (803) 625-3131

TO: City of Fort Wayne
Department of Purchases
One Main St. Room 940
Fort Wayne, Indiana 46802

Date: June 5, 1985

Reference: 750

Gentlemen:

We are pleased to quote on your inquiry as follows:

50	EFP Catalog #MD112-85-1-HS-PC-AR-BP, 28-1 foot fiberglass pole, color: light grey, Frt.	\$206.06 ea.
	2½x5" handhole, pole cap, cable	<u>11.31 ea.</u>
	entrance holes, drilling and back plate for mast arm mounting.	Total \$217.37 ea.

** 50	EFP Catalog #MD112-85-1-H-PC-AR-BP, 28-1 foot fiberglass pole, color: light grey, Frt.	\$220.04 ea.
	minimum 3x12" handhole, pole cap, cable	<u>11.31 ea.</u>
	entrance holes, drilling and backing plate for mast arm mount.	Total \$231.35 ea.


** This pole is approved by the Federal Highway Administration for breakaway
Terms: Net 30 Days

F.O.B.: Estill, SC., prepaid and allowed, if freight included in price.

Delivery: 6-8 weeks ARO

We appreciate the opportunity to quote on your requirements, and look forward to the pleasure of serving you.

Very truly yours,



Jim Myers
Sales Manager
Pole Products

COMMENTS & EXCEPTIONS TO SPECIFICATION

FORT WAYNE SPEC - SPECIFICATIONS FOR FIBERGLASS LIGHT SUPPORTS

Second paragraph - "For appearance, the deflection of the shaft shall be limited to 1 degree 10 minutes rotation . . ." Because of your limitation of top diameter (i.e., 4-1/2" O. D.), we cannot comply with the desired rotation requirement if we must consider an 8 foot long mast arm with a luminaire of 3.2 square/feet in 80 MPH wind with a 30 percent gust factor. Our angular rotation will be approximately 7 degrees as shown on attached calculations.

Further we doubt, due to the dimensional specification on diameter and the physical properties of fiberglass reinforced plastics, that any manufacturer can meet this requirement. However, due to our method of manufacture which includes layers of chopped strand mat and non-crossing of longitudinal filaments higher torsional displacement is of no consequence. This may or may not be true for manufacturing processes that wind continuous filaments in a helix around the pole axis as the sole source of fiber reinforcement.

Fourth paragraph - "A coating shall be applied to the shaft to maintain surface integrity against U. V. radiation, acid rain, road salts, and other sources of weathering." We manufacture our poles using the process of centrifugal casting. This process incorporates a hollow, polished, chrome plated mold in which the FRP shaft is cast with the aid of centrifugal force. Every shaft has at its surface a 20 mil surfacing veil which is highly impregnated with the pigmented and ultra-violet protected polyester resin. Because the mold is on the exterior of the pole, we get a shaft coming out of the mold with a very smooth finished surface. Because the surfacing veil is on the surface of the shaft, it shrouds the structural fibers with a tough weather, abrasion, and chip resistant skin which we believe is far superior to a thin secondary paint coat of perhaps 3 mils thickness. Fifteen years of experience using our technique of construction in Europe has yielded excellent results regarding weatherability. In summary, we do not feel it is necessary that our shaft receive a secondary coating to enhance weatherability.

NON-COLLUSION AFFIDAVIT

STATE OF INDIANA, }
----- COUNTY } SS:

The undersigned bidder or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be bid by anyone at such letting, nor to prevent any person from bidding nor to induce anyone to refrain from bidding, and that this bid is made without reference to any other bid and without any agreement, understanding or combination with any other person in reference to such bidding.

He further says that no person or persons, firms, or corporation has, have or will receive directly or indirectly, any rebate, fee, gift, commission or thing of value on account of such sale or contract.

Jim Myers Jim Myers

Sales Manager/ Engineered Fibreglass

Bidder or Agent

For Engineered Fibreglass Products, Inc.

Firm or Corporation

Subscribed and sworn to before me this 5th day of June, 1985

My Commission Expires

3/3/91

Cynthia C Long

ENGINEERED FIBREGLASS PRODUCTS, INC.

AFFILIATE OF G. A. PFLEIDERER, GMBH
MANUFACTURERS - ENGINEERS

ESTILL, SOUTH CAROLINA 29918

MAIL: POST OFFICE BOX 815 - FACTORY: 25 WOOD STREET - PHONE: (803) 625-3131

AFFIRMATIVE ACTION PROGRAM

The Company has an established Equal Opportunity policy (see Management Procedure No. HR 110,115) that reflects the intentions of the company in accordance with Title VII of the Civil Rights Act of the 1964 and all other statutes, regulations, and executive orders which deal with equal employment and nondiscrimination. This policy pledges that the company will make every good-faith effort to insure that no applicant or employee will suffer discrimination because of age, handicap, race, religion, color, sex or National origin in recruitment, hiring, compensation, training, advancement opportunities or any other aspect of employment. Further, the company will take affirmative action to see that this policy is implemented and is disseminated internally and externally.

Specifically, the company will:

1. Disseminate its Equal Opportunity policy internally and externally by:
 - a. Including the policy in the Human Resources Manual.
 - b. Publicizing Equal Employment Opportunity policy and related activities and picturing minority and nonminority men and women in inhouse publications.
 - c. Posting in conspicuous places throughout all company locations notices informing applicants and employees of their rights under Federal Equal Employment Opportunity Nondiscrimination Policy.
 - d. Discussing the policy at employee orientation, training sessions and in management meetings.
 - e. Including the phrase, "An Equal Opportunity Employer" in all employment advertising.
 - f. Taking every opportunity to notify educational institutions and community service groups of our policy.
2. Implement its Affirmative Action Program (with emphasis on the hiring, training and advancement of minorities, women, Viet Nam Veterans, and qualified handicapped individuals) by:
 - a. Establishing responsibilities for implementation of the program.

- b. Developing and reaffirming the company's Equal Opportunity policy in all personnel actions.
- c. Conducting a periodic work force utilization analysis to determine the availability of minorities and women having requisite skills, the availability of promotable and transferable minorities and women within the company, and the existence of training institutions capable of training persons (particularly minorities and women) in requisite skills.
- d. Identifying problem areas in the company by organizational units in job classification.
- e. Developing and executing programs designed to eliminate problems.
- f. Constantly reviewing the Salary Administration Program to assure that there is no desperate treatment regarding compensation.
- g. Actively supporting local and national community action programs and community service programs designed to improve the employment opportunities of minorities and women.

PROPOSAL AND BID SURETY FORM

PROPOSAL:

In compliance with the foregoing invitation to bid and subject to all of the conditions thereof the undersigned offers and agrees. If this bid is accepted within a reasonable time from date of opening of bids, to enter into a contract in accordance with the prices stated herein.

The Legal Advertisement, General Conditions, Instructions to Bidders, Information for Bidders, Special Conditions, Specifications, and Plans applying form a part of this proposal.

This proposal is supported by the following bid surety as required by law and signatures affixed thereto constitute both a proposal and bid surety executed by the bidder.

BID SURETY (REQUIRED BY LAW):

BOND FORM: (USE THIS BOND FORM—NO ALTERNATE FORM OF BOND WILL BE CONSIDERED).

KNOW ALL MEN BY THESE PRESENTS, THAT we, the undersigned, are held and firmly bound unto the City of Fort Wayne, State of Indiana, in the sum of _____

_____ Dollars, to be paid on demand to said City of Fort Wayne, its successors and assigns for which payment well and truly to be made, we hereby bind ourselves, our heirs, successors, executors, and administrators, jointly and severally firmly by these presents.

The condition of this obligation is such that if the bid or proposal attached hereto and made a part hereof and submitted to the within named division of the City of Fort Wayne or its duly constituted agent, is accepted and a contract awarded to the undersigned bidder and the said bidder shall within ten (10) days after notice of said award enter into a contract with the said City of Fort Wayne, State of Indiana, and shall secure the performance of the same by bond or otherwise as may be required to the satisfaction of the City of Fort Wayne, Indiana then this obligation shall be null and void; otherwise to be in full force and effect.

BID CHECK (ALTERNATE FORM OF SURETY):

Certified ☒ MONEY ORDER #63336

Cashiers ☐ Check No. _____

38/100

If a corporate surety is furnished, it is necessary that a certificate authorizing the "attorney-in-fact" to sign the bond accompanying the same.

in the sum of Five Hundred & Seventy Eight &

on The Exchange Bank

of Estill, SC. 29918

is herewith submitted and deposited in lieu of bond under the same terms and conditions as set forth in the above bond.

Note: If Check is used as Bid Surety—Attach here.

SIGNATURES (BID SURETY AND PROPOSAL):

Witnessed by:

OTHER PARTIES INTERESTED IN THIS PROPOSAL

(See 14—Signatures under General Conditions, etc.)

List all Parties if Partnership

BIDDER
AND
PRINCIPAL

Engineered Fibreglass Products,

Name of Bidder—Print or Type

By Jim Myers

Signature of Person Authorized to Sign

Title Sales Manager

25 Wood Street (P.O. Box 815)

Street Name and Number

Estill, SC. 29918

City, State and Zip Code

Date June 5, 1985

SEE COVER LETTER

Witnessed by:

SURETY

Name of Company—Print or Type

Incorporated
In the State of:

Address:

By

Sign on this Line

MBE/WBE STATEMENT

FOR
CITY OF FORT WAYNE, INDIANA

BID NO. 750
BID DATE: 6/5/85

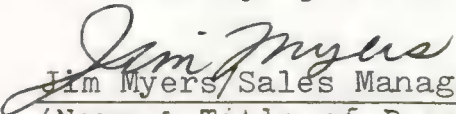
The City is committed to minority/women's business participation, and the Citizens' Advisory Committee is presently preparing an ordinance concerning minority and women's business participation for City contracts. This project is also governed by various affirmative action requirements including Presidential Executive Order Number 11246. To assist the City in meeting its stated goals and to further meet affirmative action requirements, the undersigned commits _____ percent (_____%), as a goal, of the undersigned's total bid to minority/women's business participation. In that regard, the following MBE and/or WBE firms have been contacted to work as subcontractors:

<u>Name of Firm</u>	<u>Type of Work</u>
1. Not Applicable to this type of pole	
2.	
3.	
4.	

1. Not Applicable to this type of pole
- 2.
- 3.
- 4.

Submitted on: 5th day of June, ~~1984~~ 1985

By Engineered Fibreglass Products, Inc.
(Company Name)


Jim Myers Sales Manager

(Name & Title of Person Authorized
to sign)

Business Address:

P.O. Box 815

Estill, SC. 29918

Phone Number:

(803) 625-3131

SPECIFICATIONS FOR FIBERGLASS LIGHT SUPPORTS

All components shall be furnished in accordance with the City of Fort Wayne Standards. All components shall meet the following Specifications and shall be interchangeable with existing stock components unless otherwise approved. Drawings, and required calculations to show quoted components comply with the Specifications, as well as a cross-sectional sample, shall be submitted to Street Light Engineering prior to or with quotation.

The shaft shall be designed to safely support a 48 pound luminaire with an E.P.A. of 3.2 square feet when mounted on a maximum length single member mast arm; as detailed in the Fort Wayne Standards, and subjected to an isotach value of 80 mph and a gust velocity of 104 mph using a minimum 1.8 factor of safety based upon the yield strength of the materials for maximum combined stresses. The supports shall be designed to handle first and second mode vibrations. For appearance, the deflection of the shaft shall be limited to 1 degree 10 minutes rotation or angular deflection of the shaft top when the shaft is subjected to the dead weight bending moment of the arm with the luminaire and a 3 conductor #4 aluminum wire service drop with maximum span length of 200 feet.

The shaft top O.D. shall be designed at 4 1/2 inches to accommodate the City's Standard single member mast arm. Shaft drillings for the mast arm attachment shall be centered 6 inches from the top of the shaft. The drillings shall be (4) 9/16 inches diameter holes located vertically 2 5/8 inches above and below the center point and horizontally on a 3 3/8 inch arc at 86 degrees. The shaft shall be a one piece round tapered tube consisting of glass fibers, unsaturated resin, neutral fillers, primers and catalysts. The shaft shall be furnished with a 2 1/2" - 3" x 5" reinforced hand hole located 6 feet 6 inches above the bottom of the shaft and at 90 degrees to the mast arm drilling. An ornamental cap for the pole top shall

also be furnished. Stainless steel screws shall be furnished for the attachment of the hand hole cover and the cap. A 1 1/4 inch diameter wire hole with a 1 inch I.D. rubber grommet shall be incorporated in the shaft where the arm attaches. The shaft shall also incorporate (2) 1 1/4 inch entry holes with 1 inch I.D. rubber grommet to accomodate underground wiring located on each side of the shaft and at 90 degrees to the mast arm. The shaft shall be designed to prevent rotation in the soil.

The surface of the pole shall be of uniform smoothness and free from defects for the entire length of the shaft. The shaft shall be "aluminum" in color and shall be of uniform color throughout the entire thickness of the shaft. A coating shall be applied to the shaft to maintain surface integrity against U.V. radiation, acid rain, road salts and other sources of weathering.

The shaft shall be flame retardant in accordance with A.S.T.M. D 635.

The shaft shall be warrantied for 3 years from the date of purchase to be free from defects in materials and workmanship when used under normal conditions encountered in roadway lighting applications.

Minor changes shall be allowed in the specifications prior to bid when requested in writing and deemed appropriate by the Street Lighting Engineer.

City of Fort Wayne

MD112-85 w/ 8 ft. arm

Overall length = 28' 1"
Height above ground = 23' 8"
Luminaire mounting height = 25' 10"

Arm length = 8 ft.
Arm wt. = 14.5 lbs.
Fixture wt. = 48 lbs.
E.P.A. (luminaire and arm) = 6.7 ft.²

Static Deflection = 117.66 mm = 4.63"
= 0° 56' 10.86" = 0.93635°
= 1.6%

Deflection at 35 mph (x 1.3 gust factor = 46 mph ultimate) = 300.7 mm
= 11.8"

For 80 mph wind (x 1.3 gust factor = 104 mph ultimate)

Maximum Stress = 15,963 psi
Ultimate Stress = 45,000 psi
Safety Factor = 2.8
Angular Deflection = 7° 18' 29.11"

EFP CAT NO=CITY OF FORT WAYNE, MD 112 - 8.5
WIND VELOCITY= 80mph EPA= 6.7sq ft
TEST LOAD=0 lbs
COEFFICIENT OF DRAG= 1 STATIC MOMENT= 423ft*lbs

*****-----*****

X=0mm STRESS= 11775.1psi
DEFLECTION=0mm STATIC DEFLECTION=0mm
PCS GLASS= 2 WINDINGS= 2.61526
X= 400mm STRESS= 11116.4psi
DEFLECTION= 3.72982mm STATIC DEFLECTION= .188541mm
PCS GLASS= 2 WINDINGS= 2.70715
X= 800mm STRESS= 10483.1psi
DEFLECTION= 12.9536mm STATIC DEFLECTION= .67146mm
PCS GLASS= 2 WINDINGS= 2.80272
X= 1200mm STRESS= 9871.53psi
DEFLECTION= 27.5224mm STATIC DEFLECTION= 1.46781mm
PCS GLASS= 2 WINDINGS= 2.90285
X= 1600mm STRESS= 9278.58psi
DEFLECTION= 47.2884mm STATIC DEFLECTION= 2.59876mm
PCS GLASS= 2 WINDINGS= 3.00855
X= 2000mm STRESS= 8701.51psi
DEFLECTION= 72.104mm STATIC DEFLECTION= 4.08792mm
PCS GLASS= 2 WINDINGS= 3.12089
X= 2400mm STRESS= 15963.3psi Max Stress
DEFLECTION= 102.585mm STATIC DEFLECTION= 6.02719mm
PCS GLASS= 1 WINDINGS= 1.60078
X= 2800mm STRESS= 14848.8psi
DEFLECTION= 140.818mm STATIC DEFLECTION= 8.6523mm
PCS GLASS= 1 WINDINGS= 1.66402
X= 3200mm STRESS= 13760.4psi
DEFLECTION= 188.035mm STATIC DEFLECTION= 12.1532mm
PCS GLASS= 1 WINDINGS= 1.73181
X= 3600mm STRESS= 12695.2psi
DEFLECTION= 243.902mm STATIC DEFLECTION= 16.6014mm
PCS GLASS= 1 WINDINGS= 1.80489
X= 4000mm STRESS= 11649psi
DEFLECTION= 308.068mm STATIC DEFLECTION= 22.0782mm
PCS GLASS= 1 WINDINGS= 1.88414
X= 4400mm STRESS= 10618.3psi
DEFLECTION= 380.17mm STATIC DEFLECTION= 28.6758mm
PCS GLASS= 1 WINDINGS= 1.97055
X= 4800mm STRESS= 9599.35psi
DEFLECTION= 459.819mm STATIC DEFLECTION= 36.5001mm
PCS GLASS= 1 WINDINGS= 2.06522
X= 5200mm STRESS= 8587.97psi
DEFLECTION= 546.602mm STATIC DEFLECTION= 45.6726mm
PCS GLASS= 1 WINDINGS= 2.16956
X= 5600mm STRESS= 7579.29psi
DEFLECTION= 640.068mm STATIC DEFLECTION= 56.3344mm
PCS GLASS= 1 WINDINGS= 2.28519
X= 6000mm STRESS= 6567.31psi
DEFLECTION= 739.721mm STATIC DEFLECTION= 68.6503mm
PCS GLASS= 1 WINDINGS= 2.41413
X= 6400mm STRESS= 5544.59psi
DEFLECTION= 845.007mm STATIC DEFLECTION= 82.8145mm
PCS GLASS= 1 WINDINGS= 2.55887
X= 6800mm STRESS= 4501.43psi
DEFLECTION= 955.298mm STATIC DEFLECTION= 99.0583mm
PCS GLASS= 1 WINDINGS= 2.72266
X= 7200mm STRESS= 3425.16psi
DEFLECTION= 1069.86mm STATIC DEFLECTION= 117.66mm = 4.6" = 1.6 %
PCS GLASS= 1 WINDINGS= 2.90962

$$S.F. = \frac{45,000}{15,963} = 2.8$$

Development of Torque on Pole

$$P = 0.19275 \text{ lbs/in}^2 = 27.75 \text{ lbs/ft}^2, \text{ Pressure due to } 104 \text{ mph wind, } (80 \times 1.3)$$

$$F = P \times A = (27.75 \text{ lbs/ft}^2)(6.7 \text{ ft}^2) = 185.9652 \text{ lbs} \approx 186 \text{ lbs}$$

Assume centroid of area for arm is $\frac{1}{3}$ arm length and centroid of area for fixture is 15" from arm.

$$\therefore \bar{x}_{\text{area}} = \bar{x} \Rightarrow$$

	$A, (\text{ft}^2)$	\bar{x}	$\bar{x} A$
Arm	3.5	$\frac{8}{3}$	9.3
Fixture	3.2	$8 + \frac{15}{12}$	29.6
Σ	6.7 ft^2		38.9 ft^3

$$\bar{x} = \frac{38.9}{6.7} = 5.806 \text{ ft} = \underline{\underline{5.8 \text{ ft}}}$$

$$T = \text{Force} \times \text{Dist.}, \quad F = 186 \text{ lbs}$$

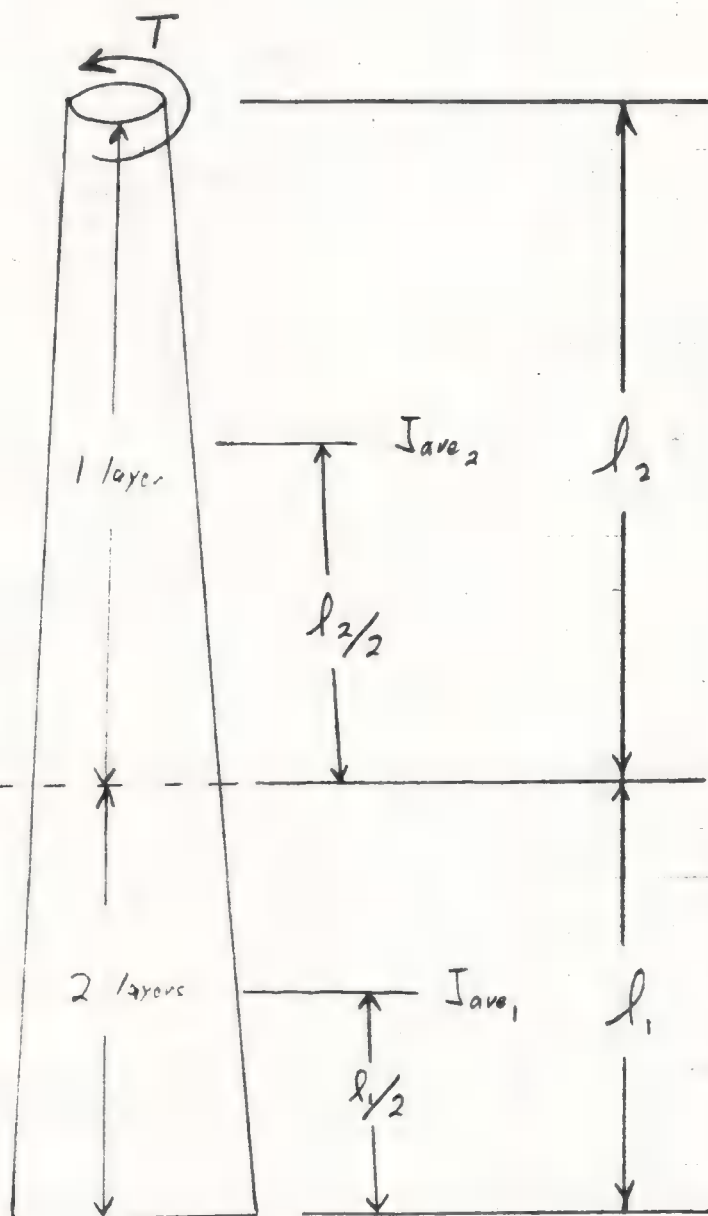
$$D = 5.8 \text{ ft.}$$

$$T = (186)(5.8) = 1078.8 \text{ ft} \cdot \text{lbs} = 12,945.6 \text{ in} \cdot \text{lbs}$$

$$X = 7200 \text{ mm}$$

$$X = 2250 \text{ mm}$$

$$X = 0 \text{ mm}$$



$$\theta_2 = \frac{T l_2}{G I_{ave2}}$$

$$\theta_1 = \frac{T l_1}{G I_{ave1}}$$

$$\theta = \theta_1 + \theta_2$$

MD 112 - 85

$$J = \frac{\pi}{32} (d_o^4 - d_i^4)$$

$X = 0 \text{ mm}$ $d_o = 241.6 \text{ mm} = 9.512''$, $R = \frac{241.6}{2} = 120.8$

(2 pieces glass)

$$\Delta = R \cdot \left[R^2 - \frac{SLG \times GL \times TAA}{\pi} \right]^{1/2}$$

SLG = No. Pieces

GL = 990 mm

TAA = 1.27 mm

$$\Delta = 120.8 - \left[120.8^2 - \frac{2 \times 990 \times 1.27}{\pi} \right]^{1/2}$$

$$\Delta = 3.360 \text{ mm}$$

$$d_i = 241.6 - 2(3.360) = 234.880 \text{ mm} = 9.247''$$

$$J = \frac{\pi}{32} [9.512^4 - 9.247^4] = \underline{\underline{85.888 \text{ in}^4}}$$

$X = 2250 \text{ mm}$, $d_o = (7200 - 2250)(0.018) + 112 = \underline{201.1 \text{ mm}} = 7.917''$, $R = \frac{201.1}{2} = 100.55$

(2 pieces glass)

$$\Delta = 100.55 - \left[100.55^2 - \frac{2 \times 990 \times 1.27}{\pi} \right]^{1/2} = 4.062 \text{ mm}$$

$$d_i = 201.1 - 2(4.062) = 192.976 \text{ mm} = 7.597''$$

$$J = \frac{\pi}{32} [7.917^4 - 7.597^4] = \underline{\underline{58.678 \text{ in}^4}}$$

$$X = 2250 \text{ mm}, d_o = 201.1 \text{ mm} = 7.917'' , R = 100.55 \text{ mm}$$

(1 piece glass)

$$x = 100.55 - \left[100.55^2 - \frac{1 \times 990 \times 1.27}{\pi} \right]^{1/2}$$

$$x = 2.010 \text{ mm}$$

$$d_i = 201.1 - 2(2.010) = \underline{197.08 \text{ mm}} = \underline{7.759''}$$

$$J = \frac{\pi}{32} (7.917^4 - 7.759^4) = \underline{29.880 \text{ in}^4}$$

$$X = 7200 \text{ mm}, d_o = 112 \text{ mm} = 4.409'', R = 56 \text{ mm} = 2.205''$$

(1 piece glass)

$$d_i = 104.61 \text{ mm} = 4.119''$$

$$J = \underline{8.839 \text{ in}^4}$$



U.S. Department
of Transportation

**Federal Highway
Administration**

400 Seventh St., S.W.
Washington, D.C. 20590

MAY 4 1984

REFER TO: HNG-21

Kenneth H. Wechsler, P.E.
President, Engineered Fibreglass
Products, Inc.
P.O. Box 815
Estill, South Carolina 29918

Dear Mr. Wechsler:

In your March 13 letter you requested acceptance, for use on Federal-aid highway projects, of different sizes of fiberglass-reinforced plastic poles produced and distributed by your company. In support of your request you enclosed a Southwest Research Institute research report, "Impact Test of Direct Burial Fiberglass Pole."

As described in the report, the tested pole had an overall length of 34 feet 7 inches and weight of 145 pounds. It had a diameter at the bottom of 11.9 inches which tapered to a diameter of 4.4 inches at the top. The pole was embedded 5 feet in a type S-1 (strong) soil described in NCHRP Report 230. A 50-pound weight was attached at the end of a 6-foot mast arm at the top of the pole to simulate the weight of a lighting fixture. A 2250-pound pendulum mass fitted with a standard crushable nose impacted the pole 18 inches above grade at a speed of 20 m.p.h. The access door of the pole faced the striking pendulum.

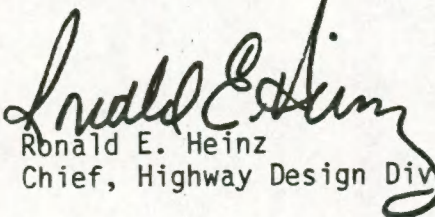
The impact caused the wall nearest the pendulum mass to collapse and initiate fracture of the pole. The pendulum pitched downward as it continued in its movement and caused the upper portion of the pole to separate and be thrown away from the impact area. This test yielded an occupant compartment impact velocity of 13.72 ft./sec. with a 0.0g ridedown acceleration. An upper limit value of 15.7 ft./sec. occupant compartment impact velocity is implied in the 1975 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. Thus, the tested pole satisfied the acceptance criteria for breakaway poles.

From our discussions with you, and from your April 12 letter, we infer that several of your direct embedment poles that are weaker than the tested pole will also pass the pendulum crash-test when embedded in a soil approximating the strong test soil. The poles that are acceptable for use on Federal-aid highway projects if proposed by a State highway agency are those bearing the following catalogue numbers in the list you provided:

All LD, MD, and SD Series

HD 94-70-0-H
HD 94-90-0-H
HD 94-105-0-H
XHD 112-70-0-H
XHD 112-90-0-H
XHD 112-105-0-H (Tested pole)
XXHD 121-70-0-H
XXHD 121-90-0-H
ED 94-70-0-H
ED 94-90-0-H
ED 94-105-0-H

Sincerely yours,

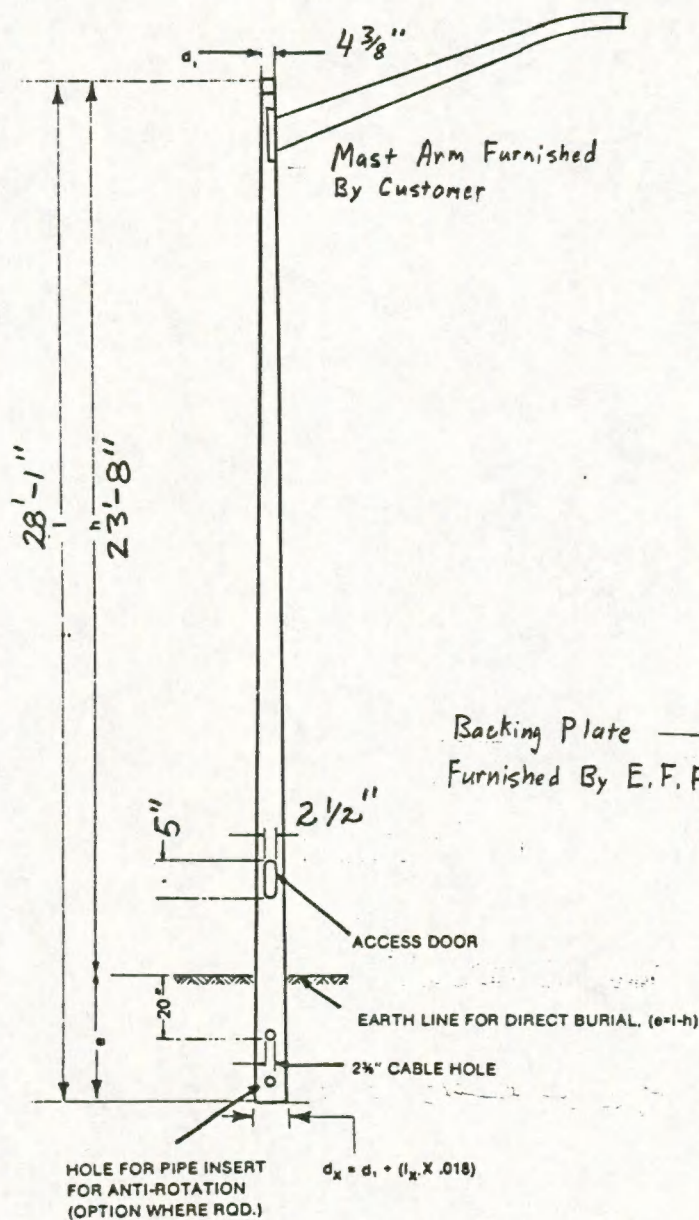


Ronald E. Heinz
Chief, Highway Design Division



FIBERGLASS REINFORCED PLASTIC LIGHTING POLES

MD112-85-1-HS-PC-AR-BP



NOTES:

1. POLE: FIBERGLASS REINFORCED PLASTIC PIGMENTED THROUGHOUT.
2. ARM: AS SPECIFIED
3. HAND HOLE: APPROXIMATELY 2 1/2" x 5"
4. FINISH: SMOOTH MOLDED SURFACE
5. COLOR: Light Grey
6. LUMINAIRE: 3.2 Ft.², 48 lbs.

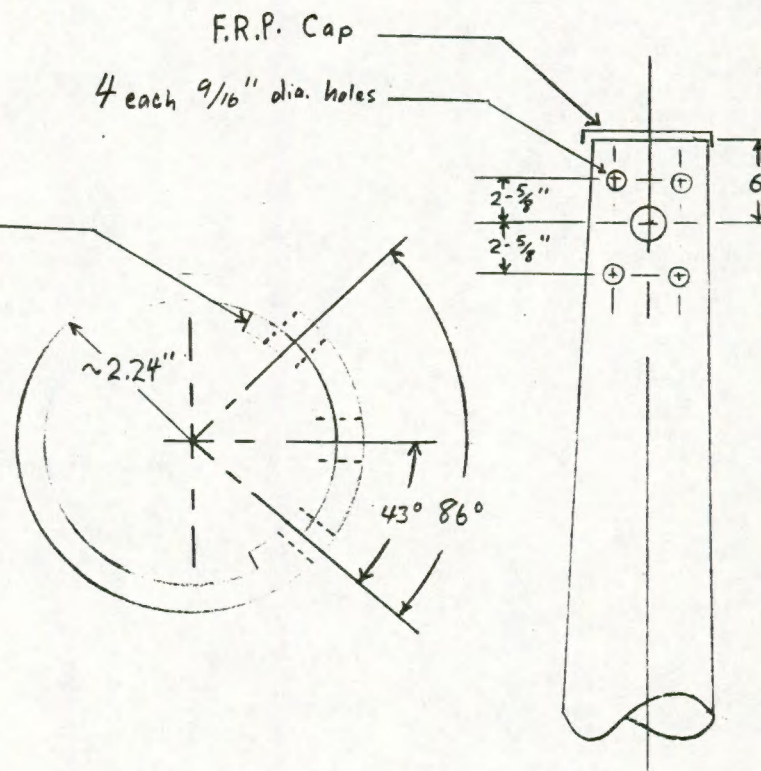


Figure 3



ENGINEERED FIBREGLASS PRODUCTS, INC.

P.O. Box 815 Estill, S.C. 29918

Phone: 803-625-3131

Affiliate of G.A. Pfeleiderer, GmbH, W. Germany

DIGEST SHEET

TITLE OF ORDINANCE: SPECIAL

DEPARTMENT REQUESTING ORDINANCE: PURCHASING

S-85-06-43

SYNOPSIS OF ORDINANCE: An ordinance approving the awarding of a bid with respect to the purchase of fiberglass light poles for the Street Light Engineering Department.

EFFECT OF PASSAGE: These supports are needed for the installation of new street lights.

EFFECT OF NON-PASSAGE: Street lights cannot be installed.

MONEY INVOLVED (Direct costs, Expenditures, Savings):
Engineered Fiberglass Products - \$11,567.50.

ASSIGNED TO COMMITTEE (President):

BILL NO. S-85-06-43

REPORT OF THE COMMITTEE ON CITY UTILITIES

WE, YOUR COMMITTEE ON CITY UTILITIES TO WHOM WAS

REFERRED AN (ORDINANCE) (~~RESOLUTION~~) XXXXXXXX approving City Utilities

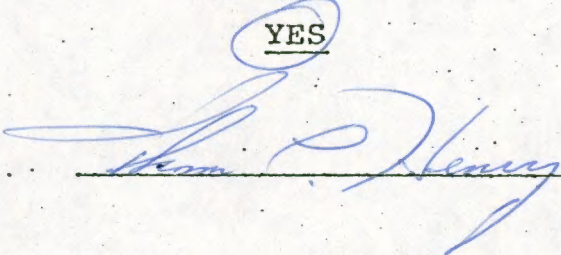
Purchase Order #A-44712 by the City of Fort Wayne, Indiana, by and
through its Department of Purchasing and Engineered Fiberglass
Products for the Street Light Engineering Department

HAVE HAD SAID (ORDINANCE) (~~RESOLUTION~~) UNDER CONSIDERATION AND BEG
LEAVE TO REPORT BACK TO THE COMMON COUNCIL THAT SAID (ORDINANCE)

(RESOLUTION)
~~XXXXXXXX~~

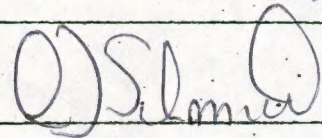
YES

NO

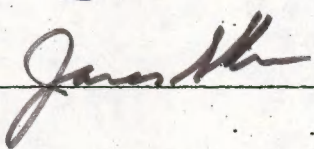


THOMAS C. HENRY
CHAIRMAN

JANET G. BRADBURY
VICE CHAIRWOMAN



DONALD J. SCHMIDT



JAMES S. STIER

CHARLES B. REDD

CONCURRED IN 7-9-85

SANDRA E. KENNEDY
CITY CLERK